

Mineral Industry Surveys

For information, contact:

John F. Papp, Chromium Commodity Specialist U.S. Geological Survey 989 National Center Reston, VA 20192

Telephone: (703) 648-4963, Fax: (703) 648-7757

E-mail: jpapp@usgs.gov

Joseph M. Krisanda (Data) Telephone: (703) 648-7987 Fax: (703) 648-7975

Internet: http://minerals.usgs.gov/minerals

CHROMIUM IN JANUARY 2003

On the basis of gross weight, consumption of chromium ferroalloys and metal in January 2003 decreased slightly compared with consumption in December 2002, according to the U.S. Geological Survey.

Included in this Mineral Industry Surveys are U.S. salient chromium statistics, U.S. government stockpile inventory of

chromium materials in January 2003, U.S. consumption by end use and consumer stocks of chromium ferroalloys and metal at the end of January 2003, and U.S. foreign trade data for selected chromium-containing materials in December 2002.

TABLE 1 U.S. SALIENT CHROMIUM STATISTICS 1/

(Metric tons, gross weight)

| | | 2002 | | | |
|--|-----------|-----------|------------|--------------|---------|
| | | | Fourth | January- | 2003 |
| | November | December | quarter | December 2/ | January |
| Production: | _ | | | | |
| Stainless steel production 3/ | 181,000 | 167,000 | 536,000 4/ | 2,180,000 4/ | 173,000 |
| Components of U.S. supply: | | | | | |
| Stainless steel scrap receipts | 57,300 | 51,200 | 179,000 | 815,000 | NA |
| Stainless steel scrap consumption | 88,200 | 81,300 | 266,000 | 1,190,000 | NA |
| Imports for consumption: | | | | | |
| Chromite ore | 2,820 | 564 | 8,890 | 112,000 | NA 5/ |
| Ferrochromium: | | | | | |
| More than 4% carbon | 26,900 | 51,900 | 98,000 | 283,000 | NA 5/ |
| More than 3%, but not more than 4% carbon | | | | | NA 5/ |
| More than 0.5%, but not more than 3% carbon | 60 | 400 | 860 | 8,040 | NA 5/ |
| Not more than 0.5% carbon | 6,000 | 2,480 | 11,400 | 25,600 | NA 5/ |
| Ferrochromium silicon | 4,960 | 2,920 | 7,880 | 28,900 | NA 5/ |
| Total ferroalloy imports | 37,900 | 57,700 | 118,000 | 346,000 | NA 5/ |
| Chromium metal 6/ | 272 | 391 | 952 | 6,670 | NA 5/ |
| Stainless steel | 60,200 | 53,500 | 170,000 | 752,000 | NA 5 |
| Stainless steel scrap | 8,360 | 7,070 | 22,900 | 81,000 | NA 5/ |
| Distribution of U.S. supply: | • | | | | |
| Industry, consumer, chromium ferroalloys and metal | 33,300 r/ | 33,400 r/ | 101,000 | 384,000 r/ | 33,300 |
| Exports: | • | | | | |
| Chromite ore | 456 | 415 | 3,360 | 24,300 | NA 5/ |
| Chromium ferroalloys: | | | | | |
| High-carbon ferrochromium | 314 | 208 | 10,100 | 13,500 | NA 5 |
| Low-carbon ferrochromium | 173 | 88 | 579 | 2,070 | NA 5/ |
| Ferrochromium silicon | 33 | | 42 | 281 | NA 5 |
| Total ferroalloy exports | 520 | 296 | 10,700 | 15,900 | NA 5/ |
| Chromium metal | 35 | 55 | 134 | 498 | NA 5/ |
| Stainless steel | 22,000 | 20,500 | 63,300 | 273,000 | NA 5/ |
| Stainless steel scrap | 19,600 | 27,700 | 71,900 | 342,000 | NA 5 |
| Stocks at end of period: | | | | | |
| Industry, consumer, chromium ferroalloys and metal | 13,100 | 13,900 r/ | XX | XX | 19,500 |
| Government stockpile: | | | | | |
| Chromite ore | 206,000 | 204,000 | XX | XX | 204,000 |
| Chromium ferroalloys | 768,000 | 763,000 | XX | XX | 758,000 |
| Chromium metal | 7,220 | 7,220 | XX | XX | 7,220 |

r/ Revised. NA Not available. XX Not applicable. -- Zero.

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} May include revised data.

^{3/} Data on stainless steel production reported by American Iron and Steel Institute; monthly, quarterly, and year-to-date production of stainless and heat-resisting raw steel.

^{4/} Includes revised data which is not broken out by specific month.

^{5/} January 2003 data not available.

^{6/} Includes waste and scrap and other.

${\bf TABLE~2} \\ {\bf U.S.~REPORTED~CONSUMPTION~AND~STOCKS~OF~CHROMIUM~PRODUCTS~1/}$

(Metric tons, gross weight unless otherwise noted)

| | 20 | 02 | |
|------------------------------------|-----------|-------------|---------|
| | | January- | 2003 |
| | December | December 2/ | January |
| Consumption by end use: | | | |
| Alloy uses: | | | |
| Iron alloys: | | | |
| Steel: | | | |
| Carbon steel | 384 r/ | 5,330 r/ | 469 |
| High-strength low-alloy steel | 1,010 r/ | 13,000 r/ | 1,060 |
| Stainless and heat-resisting steel | 28,600 | 325,000 r/ | 28,200 |
| Full alloy steel | 1,340 r/ | 16,300 r/ | 1,430 |
| Electrical steel | W | W | W |
| Tool steel | 427 | 5,810 | 490 |
| Cast irons | W | W | W |
| Superalloys | 668 | 7,930 | 686 |
| Other alloys 3/ | 116 | 1,460 | 130 |
| Total | 33,400 r/ | 384,000 r/ | 33,300 |
| Total, chromium content | 19,700 r/ | 222,000 | 19,800 |
| Consumption by material: | | | · |
| Low-carbon ferrochromium | 1,740 r/ | 21,000 | 1,910 |
| High-carbon ferrochromium | 27,800 r/ | 304,000 r/ | 27,500 |
| Ferrochromium silicon | 3,420 r/ | 54,300 r/ | 3,430 |
| Chromium metal | 259 | 3,200 | 259 |
| Chromite ore | W | W | W |
| Chromium-aluminum alloy | 30 | 468 | 35 |
| Other chromium materials | W | W | W |
| Total | 33,400 r/ | 384,000 r/ | 33,300 |
| Total, chromium content | 19,700 r/ | 222,000 | 19,800 |
| Consumer stocks: | | | • |
| Low-carbon ferrochromium | 2,360 r/ | XX | 1,980 |
| High-carbon ferrochromium | 10,300 | XX | 16,100 |
| Ferrochromium silicon | 905 | XX | 1,070 |
| Chromium metal | 191 | XX | 197 |
| Chromite ore | W | XX | W |
| Chromium-aluminum alloy | W | XX | 17 |
| Other chromium materials | W | XX | W |
| Total | 13,900 r/ | XX | 19,500 |
| Total, chromium content | 8,470 r/ | XX | 11,900 |

r/ Revised. W Withheld to avoid disclosing company proprietary data; included in "Total." XX Not applicable.

^{2/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} May include revised data.

^{3/} Includes welding and alloy hard-facing rods and materials, wear- and corrosion-resistant alloys, and aluminum, copper, magnetic, nickel, and other alloys.

${\bf TABLE~3} \\ {\bf U.S.~GOVERNMENT~STOCKPILE~INVENTORY~OF~CHROMIUM~MATERIALS~1/~2/}$

(Metric tons)

| | | | Chro | | | |
|-----------|----------|------------|-------------|------------|----------|----------|
| | Chrom | ite ore | High-carbon | Low-carbon | Ferro- | |
| | | | ferro- | ferro- | chromium | Chromium |
| Period | Chemical | Refractory | chromium | chromium | silicon | metal |
| 2002: | | - | | | | |
| January | 192,000 | 111,000 | 561,000 | 243,000 | 6,970 | 7,220 |
| February | 192,000 | 111,000 | 558,000 | 239,000 | 6,970 | 7,220 |
| March | 192,000 | 111,000 | 558,000 | 239,000 | 6,970 | 7,220 |
| April | 192,000 | 111,000 | 558,000 | 239,000 | 3,100 | 7,220 |
| May | 192,000 | 111,000 | 558,000 | 239,000 | 3,100 | 7,220 |
| June | 78,300 | 175,000 3/ | 374,000 | 163,000 | | 7,210 |
| July | 78,300 | 175,000 | 372,000 | 163,000 | | 7,210 |
| August | 78,300 | 113,000 | 547,000 3/ | 235,000 3/ | | 7,220 3/ |
| September | 78,300 | 113,000 | 544,000 | 234,000 | | 7,220 |
| October | 78,300 | 127,000 3/ | 536,000 | 233,000 | | 7,220 |
| November | 78,300 | 127,000 | 535,000 | 232,000 | | 7,220 |
| December | 78,300 | 126,000 | 531,000 | 232,000 | | 7,220 |
| 2003: | | | | | | |
| January | 78,300 | 126,000 | 527,000 | 231,000 | | 7,220 |

⁻⁻ Zero

Source: Defense National Stockpile Center.

 ${\bf TABLE~4} \\ {\bf U.S.~EXPORTS~OF~CHROMITE~ORE,~CHROMIUM~FERROALLOYS,~AND~MET~AL~1/2} \\$

| | Chromi | te ore | Chr | omium ferroalloys | s 2/ | Chromium metal 3/ | |
|------------------|-----------------|-------------|-----------------|-------------------|-------------|-------------------|-------------|
| | Gross weight | Value | Gross weight | Chromium content | Value | Gross weight | Value |
| Period | (metric tons) | (thousands) | (metric tons) | (metric tons) | (thousands) | (metric tons) | (thousands) |
| 2001: | | | | | | | |
| December | 168 | \$56 | 232 | 144 | \$186 | 62 | \$490 |
| January-December | 61,000 | 6,680 | 16,400 | 8,800 | 12,500 | 1,040 | 10,700 |
| 2002: | | | | | | | |
| January | 350 | 210 | 463 | 288 | 472 | 53 | 450 |
| February | 988 | 572 | 394 | 233 | 393 | 44 | 224 |
| March | 234 | 106 | 577 | 354 | 513 | 27 | 447 |
| April | 528 | 822 | 674 | 412 | 652 | 80 | 699 |
| May | 494 | 153 | 774 | 452 | 686 | 48 | 493 |
| June | 17,200 | 824 | 456 | 261 | 416 | 24 | 265 |
| July | 335 | 89 | 394 | 240 | 369 | 25 | 366 |
| August | 345 | 61 | 771 | 469 | 577 | 38 | 414 |
| September | 458 | 171 | 664 | 394 | 589 | 25 | 253 |
| October | 2,490 | 842 | 9,880 | 6,460 | 4,650 | 44 | 404 |
| November | 456 | 122 | 520 | 307 | 462 | 35 | 445 |
| December | 415 | 93 | 296 | 178 | 288 | 55 | 483 |
| January-December | 24,300 | 4,070 | 15,900 | 10,100 | 10,100 | 498 | 4,940 |

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{1/} Data are rounded to no more than three significant digits.

^{2/} These Government stocks are reported by the Defense National Stockpile Center in Inventory of Stockpile Materials R-1, which reports uncommitted inventory. Uncommitted inventory is that inventory for which there is no sales contract. Committed inventory is that inventory for which there is a sales contract; however, the material has not yet been shipped. For chromium materials, the R-1 report includes chromium materials that (1) meet specification and are held in excess of goal and (2) do not meet specifications and are held in excess of goal. The R-1 report excludes chromium materials that are committed and awaiting shipment.

^{3/} The increase resulted from the reclassification of physical inventory from committed to uncommitted. It does not result from the addition of chromium materials to the stockpile.

^{2/} Includes low-, medium-, and high-carbon ferrochromium and ferrochromium silicon.

 $^{3/\,}Includes$ chromium metal waste and scrap.

 ${\bf TABLE~5}$ U.S. IMPORTS FOR CONSUMPTION OF CHROMITE ORE, FERROCHROMIUM, AND CHROMIUM METAL 1/

(Metric tons)

| | 2001 | 2002 | | | | |
|--|----------|---------|----------|----------|-------------|--|
| | January- | | | | January- | |
| | December | October | November | December | December 2/ | |
| Chromite ore: | | | | | | |
| Not more than 40% chromic oxide: | - | | | | | |
| Gross weight | 1,600 | | | 17 | 1,080 | |
| Chromic oxide content | 575 | | | 6 | 301 | |
| More than 40% but less than 46% chromic oxide: | | | | | | |
| Gross weight | 3,100 | 19 | 51 | 24 | 10,600 | |
| Chromic oxide content | 1,430 | 8 | 23 | 11 | 4,470 | |
| 46% or more chromic oxide: | - | | | | | |
| Gross weight | 184,000 | 5,490 | 2,770 | 523 | 100,000 | |
| Chromic oxide content | 88,600 | 2,600 | 1,290 | 258 | 46,700 | |
| Total, all grades: | - | | | | | |
| Gross weight | 189,000 | 5,510 | 2,820 | 564 | 112,000 | |
| Chromic oxide content | 90,600 | 2,610 | 1,310 | 275 | 51,500 | |
| Ferrochromium: | <u> </u> | | | | | |
| Low-carbon: 3/ | - | | | | | |
| Not more than 0.5%: | - | | | | | |
| Gross weight | 17,200 | 2,890 | 6,000 | 2,480 | 25,600 | |
| Chromium content | 11,800 | 1,980 | 3,770 | 1,720 | 17,000 | |
| More than 0.5% but not more than 3%: | - | | | | | |
| Gross weight | 2,290 | 400 | 60 | 400 | 8,040 | |
| Chromium content | 1,440 | 255 | 38 | 267 | 4,960 | |
| Total, low-carbon: | - | | | | | |
| Gross weight | 19,500 | 3,290 | 6,060 | 2,880 | 33,600 | |
| Chromium content | 13,200 | 2,240 | 3,810 | 1,990 | 22,000 | |
| Medium-carbon: 4/ | - | | | | | |
| Gross weight | 20 | | | | | |
| Chromium content | 13 | | | | | |
| High-carbon: 5/ | = | | | | | |
| Gross weight | 236,000 | 19,200 | 26,900 | 51,900 | 283,000 | |
| Chromium content | 137,000 | 10,700 | 15,100 | 29,800 | 169,000 | |
| Total, all grades: | - | | | | | |
| Gross weight | 256,000 | 22,500 | 33,000 | 54,800 | 316,000 | |
| Chromium content | 150,000 | 12,900 | 18,900 | 31,800 | 191,000 | |
| Chromium metal: | | | | | | |
| Other than waste and scrap | 8,150 | 289 | 262 | 389 | 6,570 | |
| Waste and scrap | 43 | | 10 | 2 | 93 | |
| Total, all grades | 8,190 | 289 | 272 | 391 | 6,670 | |

⁻⁻ Zero.

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} May include revised data.

 $^{3/\}operatorname{Ferrochromium}$ containing not more than 3% carbon.

 $^{4/\}operatorname{Ferrochromium}$ containing more than 3% but not more than 4% carbon.

^{5/} Ferrochromium containing more than 4% carbon.

TABLE 6 U.S. IMPORTS FOR CONSUMPTION OF CHROMITE ORE IN 2002, BY GRADE AND BY COUNTRY 1/

| | | December | | January-December 2/ | | | |
|----------------------------------|---------------|---------------|-------------|---------------------|---------------|-------------|--|
| | Gross | | | Gross | | | |
| | weight | Cr_2O_3 | Value 3/ | weight | Cr_2O_3 | Value 3/ | |
| Grade and country | (metric tons) | (metric tons) | (thousands) | (metric tons) | (metric tons) | (thousands) | |
| Not more than 40% chromic oxide: | | | | | | | |
| Canada | - | | | 38 | 13 | \$15 | |
| Philippines | | | | 981 | 266 | 180 | |
| South Africa | 17 | 6 | \$4 | 63 | 22 | 16 | |
| Total | 17 | 6 | 4 | 1,080 | 301 | 211 | |
| More than 40% but less than 46% | _ | | | | | | |
| chromic oxide, South Africa | 24 | 11 | 3 | 10,600 | 4,470 | 710 | |
| 46% or more chromic oxide | | | | | | | |
| Germany | | | | 18 | 9 | 5 | |
| South Africa | 523 | 258 | 73 | 100,000 | 46,700 | 5,800 | |
| Total | 523 | 258 | 73 | 100,000 | 46,700 | 5,810 | |
| All grades: | | | | | | | |
| Canada | | | | 38 | 13 | 15 | |
| Germany | | | | 18 | 9 | 5 | |
| Philippines | | | | 981 | 266 | 180 | |
| South Africa | 564 | 275 | 79 | 111,000 | 51,200 | 6,530 | |
| Total | 564 | 275 | 79 | 112,000 | 51,500 | 6,730 | |

⁻⁻ Zero

 $^{1/\,\}text{Data}$ are rounded to no more than three significant digits; may not add to totals shown.

^{2/} May include revised data.

^{3/} Customs import value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise into the United States.

 ${\it TABLE~7} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~FERROCHROMIUM~IN~2002,~BY~GRADE~AND~BY~COUNTRY~1/2002} \\ {\it Constant of the property of the$

| | | December | | Jan | uary-December | 2/ |
|---|---------------|---------------|-------------|---------------|---------------|-------------|
| | Gross | Chromium | | Gross | Chromium | |
| | weight | content | Value 3/ | weight | content | Value 3/ |
| Grade and country | (metric tons) | (metric tons) | (thousands) | (metric tons) | (metric tons) | (thousands) |
| High-carbon ferrochromium: 4/ | | | | | | |
| China | | | | 82 | 54 | \$94 |
| Germany | | | | 6,120 | 4,260 | 2,850 |
| India | 34 | 22 | \$18 | 89 | 57 | 46 |
| Kazakhstan | 13,000 | 9,050 | 4,960 | 109,000 | 75,500 | 39,900 |
| Russia | 1,150 | 795 | 1,030 | 2,710 | 1,870 | 2,450 |
| South Africa | 34,700 | 18,200 | 10,300 | 132,000 | 68,100 | 36,600 |
| Turkey | | | | 6,000 | 3,570 | 1,840 |
| Venezuela | | | | 20 | 14 | 12 |
| Zimbabwe | 3,010 | 1,770 | 999 | 25,800 | 15,500 | 8,540 |
| Total | 51,900 | 29,800 | 17,300 | 283,000 | 169,000 | 92,300 |
| Low-carbon ferrochromium: 5/ | | | | | | |
| More than 0.5% but not more than 3% carbon: | | | | | | |
| Kazakhstan | 300 | 205 | 217 | 1,960 | 1,360 | 1,370 |
| Russia | | | | 991 | 695 | 884 |
| South Africa | 100 | 62 | 74 | 5,090 | 2,900 | 2,450 |
| Total | 400 | 267 | 291 | 8,040 | 4,960 | 4,710 |
| Not more than 0.5% carbon: | | | | | | |
| China | 18 | 12 | 21 | 98 | 65 | 138 |
| France | | | | 4 | 3 | 5 |
| Germany | 758 | 533 | 1,300 | 4,180 | 2,920 | 7,710 |
| Japan | 60 | 41 | 133 | 1,040 | 726 | 2,160 |
| Kazakhstan | | | | 2,600 | 1,820 | 1,950 |
| Russia | 1,630 | 1,120 | 1,460 | 12,300 | 8,420 | 11,600 |
| South Africa | 16 | 11 | 33 | 5,040 | 2,820 | 2,410 |
| Turkey | | | | 261 | 189 | 289 |
| Total | 2,480 | 1,720 | 2,950 | 25,600 | 17,000 | 26,200 |
| All grades: | | | | | | |
| China | 18 | 12 | 21 | 180 | 119 | 232 |
| France | <u> </u> | | | 4 | 3 | 5 |
| Germany | 758 | 533 | 1,300 | 10,300 | 7,180 | 10,600 |
| India | 34 | 22 | 18 | 89 | 57 | 46 |
| Japan | 60 | 41 | 133 | 1,040 | 726 | 2,160 |
| Kazakhstan | 13,300 | 9,260 | 5,180 | 114,000 | 78,700 | 43,200 |
| Russia | 2,780 | 1,920 | 2,490 | 16,100 | 11,000 | 14,900 |
| South Africa | 34,800 | 18,300 | 10,400 | 143,000 | 73,800 | 41,400 |
| Turkey | | | | 6,260 | 3,760 | 2,130 |
| Venezuela | | | | 20 | 14 | 12 |
| Zimbabwe | 3,010 | 1,770 | 999 | 25,800 | 15,500 | 8,540 |
| Total | 54,800 | 31,800 | 20,500 | 316,000 | 191,000 | 123,000 |

⁻⁻ Zero.

 $^{1/\,\}text{Data}$ are rounded to no more than three significant digits; may not add to totals shown.

^{2/} May include revised data.

^{3/} Customs import value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise into the United States.

^{4/} Ferrochromium containing more than 4% carbon.

^{5/} Ferrochromium containing not more than 3% carbon.

TABLE 8 U.S. IMPORTS FOR CONSUMPTION OF CHROMIUM METAL IN 2002, BY GRADE AND BY COUNTRY 1/

| Gross weight (metric tons) | Value 3/ (thousands) | Gross weight (metric tons) | Value 3/ (thousands) |
|----------------------------|--------------------------------------|----------------------------|--|
| 1 (4/) | , | (metric tons) | (thousands) |
| (4/) | \$70 | | |
| (4/) | \$70 | | |
| * * | Ψ17 | 20 | \$509 |
| | 16 | 23 | 169 |
| 1 | 5 | 4 | 19 |
| | | 18 | 65 |
| | | 28 | 542 |
| 2 | 100 | 93 | 1,310 |
| | | | |
| | | (4/) | 43 |
| 60 | 229 | 1,500 | 5,820 |
| (4/) | 24 | (4/) | 24 |
| 109 | 831 | 1,600 | 12,900 |
| (4/) | 57 | 30 | 602 |
| | | (4/) | 4 |
| | | 1 | 41 |
| 5 | 37 | 15 | 173 |
| | | 365 | 1,460 |
| | | (4/) | 37 |
| | | 7 | 29 |
| 140 | 449 | 1.830 | 7,830 |
| | | | 7 |
| | | ` ' | 11 |
| (4/) | 7 | | 35 |
| * * | | ` ' | 13 |
| | | | 7,740 |
| | | | 36,800 |
| | _, | | |
| | | (4/) | 43 |
| 60 | 229 | | 5,820 |
| | | * | 24 |
| . , | | ` ' | 12,900 |
| | | | 1,110 |
| | | | 4 |
| | | ` ' | 41 |
| 5 | 53 | | 342 |
| | | | 1,460 |
| 1 | | | 19 |
| | | | 37 |
| | | ` ' | 94 |
| 140 | 119 | | 8,370 |
| 140 | 11 7 | , | 7,370 |
| | | ` ' | 11 |
| | | | 35 |
| ` ' | | | 13 |
| | | | |
| - | | | 7,740 38,100 |
| | 60 (4/) 109 (4/) 5 140 (4/) 1 73 389 | 2 100 | 28 2 100 93 (4/) 60 229 1,500 (4/) 24 (4/) 109 831 1,600 (4/) 57 30 (4/) (4/) 1 5 37 15 (4/) (4/) (4/) (4/) (4/) 1 6 2 73 493 1,200 389 2,130 6,570 (4/) 60 229 1,500 (4/) 24 (4/) 109 831 1,600 1 136 49 (4/) |

⁻⁻ Zero.

 $^{1/\,\}mbox{Data}$ are rounded to no more than three significant digits; may not add to totals shown.

^{2/} May include revised data.

^{3/} Customs import value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise into the United States.

^{4/} Less than 1/2 unit.

TABLE 9
U.S. TRADE OF STAINLESS STEEL, BY PRODUCT, IN 2002 1/

| | Decer | nber | January-De | cember 2/ |
|----------------------------------|---------------|-------------|---------------|-------------|
| | Gross weight | Value 3/ | Gross weight | Value 3/ |
| Stainless steel product | (metric tons) | (thousands) | (metric tons) | (thousands) |
| Exports: | | | | |
| Ingot | 634 | \$4,800 | 21,800 | \$58,900 |
| Flat-rolled (width > 600 mm) | 10,100 | 19,100 | 102,000 | 210,000 |
| Flat-rolled (width < 600 mm) | 6,670 | 14,800 | 97,300 | 201,000 |
| Bars and rods in irregular coils | 88 | 723 | 1,240 | 6,460 |
| Other bars and rods | 713 | 4,850 | 15,300 | 82,400 |
| Wire | 488 | 3,480 | 10,100 | 67,300 |
| Tubes, pipes, hollow profiles | 1,760 | 8,630 | 25,900 | 116,000 |
| Total | 20,500 | 56,400 | 274,000 | 742,000 |
| Stainless steel scrap | 27,700 | 24,200 | 342,000 | 252,000 |
| Grand total | 48,200 | 80,600 | 616,000 | 994,000 |
| Imports: | | | | |
| Ingot | 12,500 | 16,000 | 265,000 | 306,000 |
| Flat-rolled (width > 600 mm) | 20,300 | 31,300 | 240,000 | 364,000 |
| Flat-rolled (width < 600 mm) | 2,630 | 9,060 | 32,700 | 100,000 |
| Bars and rods in irregular coils | 3,810 | 6,080 | 52,900 | 86,700 |
| Other bars and rods | 6,340 | 13,900 | 71,800 | 162,000 |
| Wire | 3,130 | 8,650 | 30,000 | 92,100 |
| Tubes, pipes, hollow profiles | 4,800 | 18,500 | 59,900 | 239,000 |
| Total | 53,500 | 103,000 | 752,000 | 1,350,000 |
| Stainless steel scrap | 7,070 | 4,630 | 81,000 | 49,400 |
| Grand total | 60,600 | 108,000 | 833,000 | 1,400,000 |

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} May include revised data.

^{3/} Export value is free alongside ship (f.a.s.). Import value is Customs import value, which generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise into the United States.